

MOTION WS 1 (M)

Solutions on PB

For each problem, make a sketch of the scenario. Use an arrow to indicate the displacement. Calculate the distance and displacement of each and show your work. Pay attention to the units (km, m, miles, feet, blocks).

1. David walks 3 km north, then turns and walks 4 km east. (Use $A^2 + B^2 = C^2$)

Distance: _____

Displacement: _____

2. Amy runs 2 miles south, then turns around and runs 3 miles north.

Distance: _____

Displacement: _____

3. Jermaine runs exactly 2 laps around a 400 meter track.

Distance: _____

Displacement: _____

4. Derrick crawls 4 feet then turns 90 degrees and crawls 6 feet. (Use $A^2 + B^2 = C^2$)

Distance: _____

Displacement: _____

5. Ray runs 30 feet north, 30 feet west, and then 30 feet south.

Distance: _____

Displacement: _____

6. Mike walks 10 steps forward, turns 180 degrees and walks 4 steps back.

Distance: _____

Displacement: _____

7. Andy walks 1 mile then turns 90 degrees and walks 2 miles. (Use $A^2 + B^2 = C^2$)

Distance: _____

Displacement: _____